

**ABSTRACT**  
**METHODS FOR DETERMINING THE TRUE**  
**SIGNAL OF AN ANALYTE**

The invention relates to a method of determining  
5 a true signal of an analyte, comprising (a) measuring an  
observed signal  $x$  for one or more analytes, and (b)  
determining a mean signal ( $\mu$ ) and a system parameter ( $\beta$ )  
for said analyte that produce enhanced values for a  
probability likelihood of said observed signal, said  
10 observed signal being related to said mean signal by an  
additive error ( $\delta$ ) and a multiplicative error ( $\epsilon$ ),  
wherein said system parameter specifies properties of  
said additive error ( $\delta$ ) and said multiplicative error  
( $\epsilon$ ).